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## Pedro's Tables

This problem gives you the chance to:

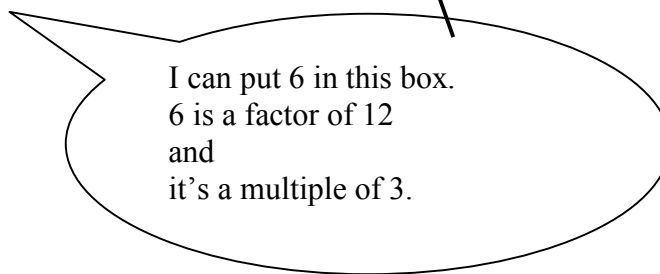
- work with number properties including divisibility
  - explain your reasoning
- 

Pedro chooses numbers to go in a table.

He can choose any whole number from 1 to 25.

	Multiples of 5	Multiples of 3	Square numbers
Even numbers			
Factors of 12		6	
Prime numbers			

Pedro says,



1. What other numbers could Pedro put in this box? \_\_\_\_\_
2. The number 4 can go in two different boxes in the table.  
Write 4 in these two boxes.
3. Give a description of numbers that can go in the Even numbers and Multiples of 3 box.  
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Grade 7 – 2008

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4. Explain why there are no numbers that can go in the Factors of 12 and Multiples of 5 box.

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5. Explain why there is only one number that can go in the middle box on the bottom row.

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<b>Pedro's Tables</b>	<b>Rubric</b>	
The core elements of performance required by this task are: <ul style="list-style-type: none"> <li>• work with number properties including divisibility</li> <li>• explain your reasoning</li> </ul> Based on these, credit for specific aspects of performance should be assigned as follows	points	section points
1. Gives correct answers: <b>3, 12</b> (deduct 1 mark if additional numbers listed)	2x1	2
2. Writes 4 in the correct boxes: Right hand column, first and second rows	1	1
3 Gives correct answer such as: Multiples of 6	1	1
4. Gives correct explanation such as: ‘The factors of 12 are 1, 2, 3, 4, 6 and 12. None of these are multiples of 5. 12 is not divisible by5.  <i>Partial credit</i> for a partially correct explanation	2  (1)	  2
5. Gives correct explanation such as: 3 is a prime number and a multiple of 3. All other multiples of 3 have more than two factors so are not prime numbers.	1	1
<b>Total Points</b>		<b>7</b>